

POLARIZING BEAM SPLITTER AND DUAL DETECTOR CALIBRATION OF A
METROLOGY DEVICE HAVING A SPATIAL PHASE MODULATION

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ABSTRACT

10 An ellipsometer with a variable retarder, which introduces a spatial dependence in
the beam, includes a polarizing beam splitter to produce two beams with orthogonal
polarization states. The beam splitter may be, e.g., a polarizing displacer or polarizing
beam splitter. The intensities of the two beams are measured, e.g., using separate
detectors or separate detector elements in an array. The intensity from the two beams
may be summed and used as a reference to normalize intensity of the produced beam.